K112315

510k Summary

APR 2 3 2012

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Submission Contact:

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Date Prepared:

Feb 23, 2012

Device Trade Name:

y.b.t. Pregnancy Test Cassette

y.b.t. Pregnancy Test Strip

Common Name:

Urine Pregnancy Test

Predicate Device:

ACON[™] hCG One Step Pregnancy Test Strip (Urine)

(K993203)

Product Code:

JHI

Device Classification / Name:

Physiologic Basis of the Test:

Device Description:

21 CFR§862,1155 / Human Chorionic Gonadotropin

(hCG) Test System, Class II

The y.b.t. Pregnancy Test is an immuno

chromatographic assay for the qualitative

Intended Use:

determination of HCG in human urine. The test is

intended for use as an aid in the early detection of

pregnancy.

Human Chorionic Gonadotropin is a hormone

produced by the placenta shortly after implantation.

Since hCG is present in the urine of pregnant women,

it is an excellent marker for confirming pregnancy.

The test is available in two formats: strip and cassette. Both of them are intended for prescription

use. Both of them have the same memebrane format,

reagents and flow characteristics. Devices are

packaged one device per pouch with 1 devices per

kit.

Device Comparison

Table 1. Device Comparison of NewScen y.b.t Pregnancy Test and Acon Pregnancy Test

Features	NewScen y.b.t Pregnancy Test	Acon Pregnancy Test Strip	
	(Proposed)	(K993203)	
	The y.b.t. Pregnancy Test is an immuno	The Acon Pregnancy Test Strip is a	
	chromatographic assay for the	one-step immunoassay for the qualitative	
Intended Use	qualitative determination of HCG in	detection of HCG in Urine for the early	
	human urine. The test is intended for	detection of pregnancy. The test is	
	use as an aid in the early detection of	intended for use by health care	
	pregnancy.	professionals.	
Analyte	Human Chorionic Gonadotropin	Human Chorionic Gonadotropin	
Specimen	Urine	Urine or serum	
Format	Lateral-flow immunoassay	Lateral-flow immunoassay (strip)	
Total steps	1	1	
Read Time	5 minutes	3 or 5 minutes	
Sensitivity	25 mIU/mI	25 mIU/ml	
Test	Red procedural control line	Red procedural control line	
Interpretation	Pink-to-red line	Pink-to-red line	
	Test Line*	Test Line*	
	Monoclonal Beta anti-hCG antibody is	Monoclonal Beta anti-hCG antibody is	
	immobilized in the test zone on the	immobilized in the test zone on the	
	nitrocellulose membrane	nitrocellulose membrane	
	Indicator	Indicator	
Tinak Okulu	Monoclonal Alpha anti-HCG antibody	Monoclonal Alpha anti-HCG antibody	
Test Strip	coupled to red-colored gold particles is	coupled to red-colored gold particles is	
Components	incorporated into the conjugate Pad	incorporated into the conjugate Pad	
	Control Line*	Control Lino*	
	Control Line*	Control Line*	
	Goat anti-mouse antibody is spotted in	Goat anti-mouse antibody is spotted in	
	the control zone on the nitrocellulose membrane.	the control zone on the nitrocellulose membrane.	
	membrane.	monutane.	

^{*}Note: The monoclonal antibodies used for the Test Line and the Indicator in the y.b.t Pregnancy Test are identical to those used in the predicate Acon Pregnancy Test Strip. The components that generate the Control Line are also identical.

Table 2. Components Comparison of y.b.t HCG Strip and y.b.t HCG Cassette

Features	Y.b.t Pregnancy Test (Cassette)	Y.b.t Pregnancy Test (Strip)
	T-line: mouse anti HCG-Beta, Clone # 9008	Same
Antibody	C-line: goat anti mouse lgG,	Same
	Conjugation, Mouse anti HCG-Alpha, Clone # 9001	Same

Specimen pad	Non-woven cloth	n-woven cloth Same	
Conjugate Gold Pad	Non-woven cloth, Conjugate gold	Same	
NC membrane	Nitrocellulose membrane	Same	
Absorbent pad	Absorbent paper	Same	
PVC baseplate	PVC plate	Same	
Buffer	PBS	Same	
Cassette	No	Cassette	
Colorful paper	Colorful Paper	No	
Max line	Colorful Paper	No	

Summary of Performance Data:

SESITIVITY

The test will detect hCG in urine at concentration of 25 mIU/mI and higher. This sensitivity level has been confirmed with hCG standards (25, 50, 250, 2500, and 500,000 mIU/mI) in urine calibrated against the WHO Third I.S.. Occasionally, specimens containing less than 25 mIU/mI hCG can give positive results.

SPECIFICITY

Menopausal urine samples

A study was performed using urine specimens from 20 postmenopausal women. Urine of postmenopausal women can interfere with pregnancy testing due to elevated concentrations of gonadotropic hormone structurally similar to hCG. All 20 samples tested negative with the y.b.t. hCG Card.

Potentially interfering substances

The following substances did not interfere with hCG testing using y.b.t. hCG Card when added to urine samples containing 0 mIU/mI and 25 mIU/mI hCG:

Acetaminophen	20mg/dl	Ascorbic acid	20mg/dl
Acetylsalicylic acid	20mg/dl	Ampicilline	20mg/dl
Atropine	20mg/dl	Caffeine	20mg/ml
Cortisol	200ng/ml	Albumin	2,000mg/dl
DHEAS	500ng/ml	Estradiol (E-2)	25ng/ml
Estriol (E-3)	25ng/ml	Gentisic acid	20mg/dl
Glucose	2,000mg/dl	Tetracycline	20mg/dl
Uric acid	10mg/dl	Bilirubin	1000mg/dl
Hemoglobin	1mg/dl		

Cross reactive glycoprotein hormones

The following hormones structurally related to hCG did not interfere with hCG testing using the y.b.t. hCG Card when added to urine specimens at the concentrations indicated below:

Luteinizing hormone 100-1000 mIU/mI, Follicle stimulating hormone 100-1,000 mIU/mI Tyroid stimulating hormone 100-1,000 mIU/mI

Method Comparison

60 positive and 60 negative patient urine specimens confirmed with routine diagnostic method were tested against y.b.t pregnancy test strip at two certified hospital. The results showed 100% consistence.

	Positive Urine	Negative Urine	Total
y.b.t (+)	60	0	60
y.b.t (-)	0	60	60
Total	60	60	120 .

Positive agreement: (60+0)/60=100% Negative agreement:: (0+60)/60=100% Specificity: (60+60)/(60+60)=100%

PRECISION

Intra-assay

In the study, eleven replicate assays were performed with each of three specimens containing 0, 25, and 250 mIU/ml hCG. Correct negative and positive results were registered in 100% of the assays.

Inter-assay

The study involved the same three specimens containing 0, 25, and 250 mIU/ml hCG. The samples were analyzed in eleven independent assays with y.b.t. hCG Card originating from three different lots at different times during two months. Again, expected negative and positive results were registered in 100% of the assays.

STORAGE AND STABILITY

Store Y.b.t. Preganacy Test Strip at temperature ranges 2-30 °C in the sealed pouch. Refer to the expiration date for stability. Do not freeze. Use the strip immediately once the sealed pouch is opened.

Conclusion:

The result of these studies demonstrate that y.b.t pregnancy test is substantially equivalent with the predicate Acon Pregnancy Test

DEPARTMENT OF HEALTH & HUMAN SERVICES

NewScen Coast Bio-Pharmaceutical Co., Ltd c/o Chandravadan Patel, Ph.D. 2117 Claney Ct. Simi Valley, CA 93065

10903 New Hampshire Avenue Silver Spring, MD 20993

APR 2 3 2012

Re: k112315

Trade/Device Name: y.b.t. Pregnancy Test Strip; y.b.t. Pregnancy Test Cassette

Regulation Number: 21 CFR 862.1155

Regulation Name: Human chorionic gonadotropin (hCG) test system

Regulatory Class: Class II

Product Code: JHI Dated: April 9, 2012 Received: April 16, 2012

Dear Dr. Patel:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into class II (Special Controls), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at (301) 796-5760. For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to http://www.fda.gov/Medical Devices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance...

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-5680 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm

Sincerely yours,

Courtney H. Lias, Ph.D.

Director

Division of Chemistry and Toxicology Devices

Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): <u>k112315</u>
Device Name: The y.b.t Pregnancy Test Strip
Indications for Use:
The y.b.t. Pregnancy Test Strip is an immunochromatographic assay for the qualitative determination of HCG in human urine. The test is intended for use as an aid in the early detection of pregnancy.
Prescription Use × Over-The-Counter Use AND/OR
(Part 21 CFR801 Subpart D) (21 CFR801 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)
Concurrence of CDRH, Office of In Vitro Diagnostic Devices(OIVD)
Division Sign-Off Office of In Vitro Diagnostic Device Evaluation and Safety 510(k) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Indications for Use

510(k) Number (if known): <u>k112315</u>
Device Name: The y.b.t Pregnancy Test Cassette
Indications for Use:
The y.b.t. Pregnancy Test Cassette is an immunochromatographic assay for the qualitative determination of HCG in human urine. The test is intended for use as an aid in the early detection of pregnancy.
Prescription Use × Over-The-Counter Use
(Part 21 CFR801 Subpart D) (21 CFR801 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)
Concurrence of CDRH, Office of In Vitro Diagnostic Devices(OIVD)
Of Charles
Division Sign-Off
Office of In Vitro Diagnostic Device Evaluation and Safety
510(k) 112315